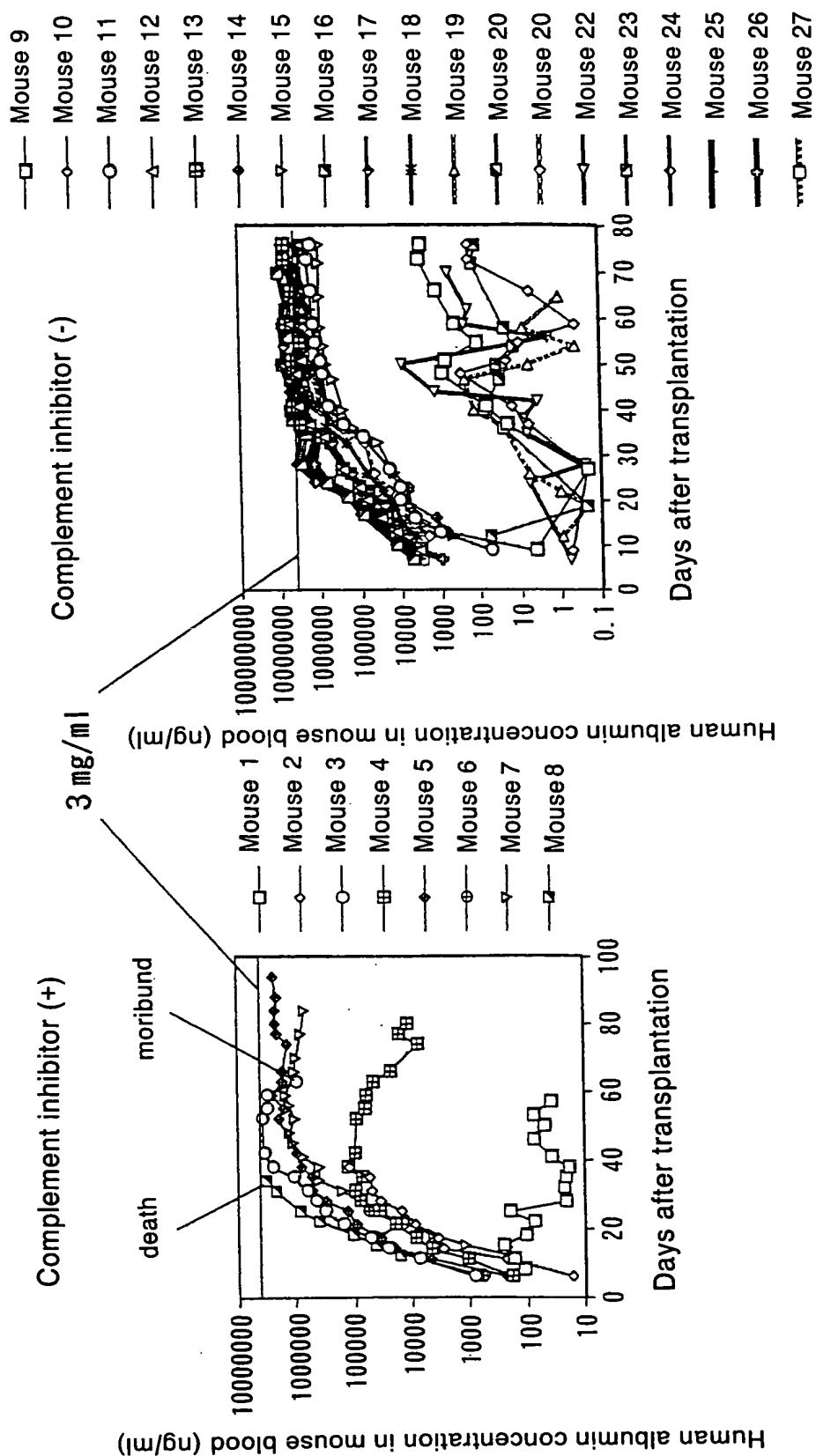


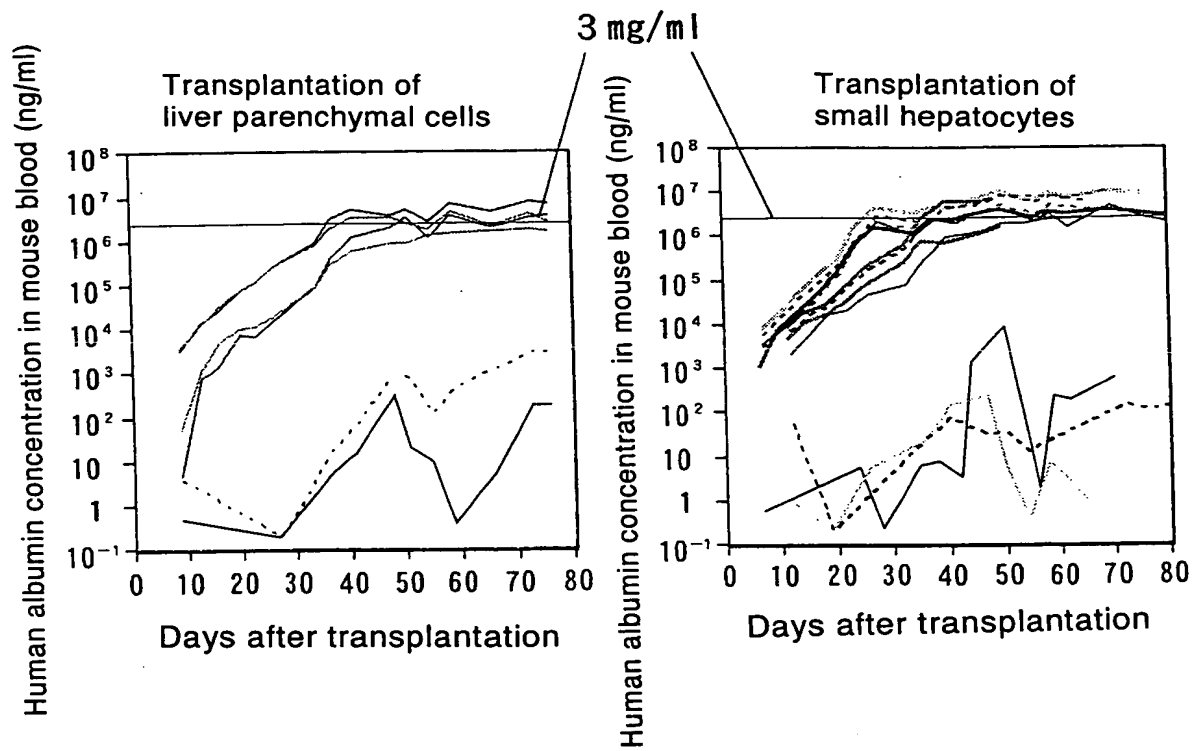
1/20

Fig. 1

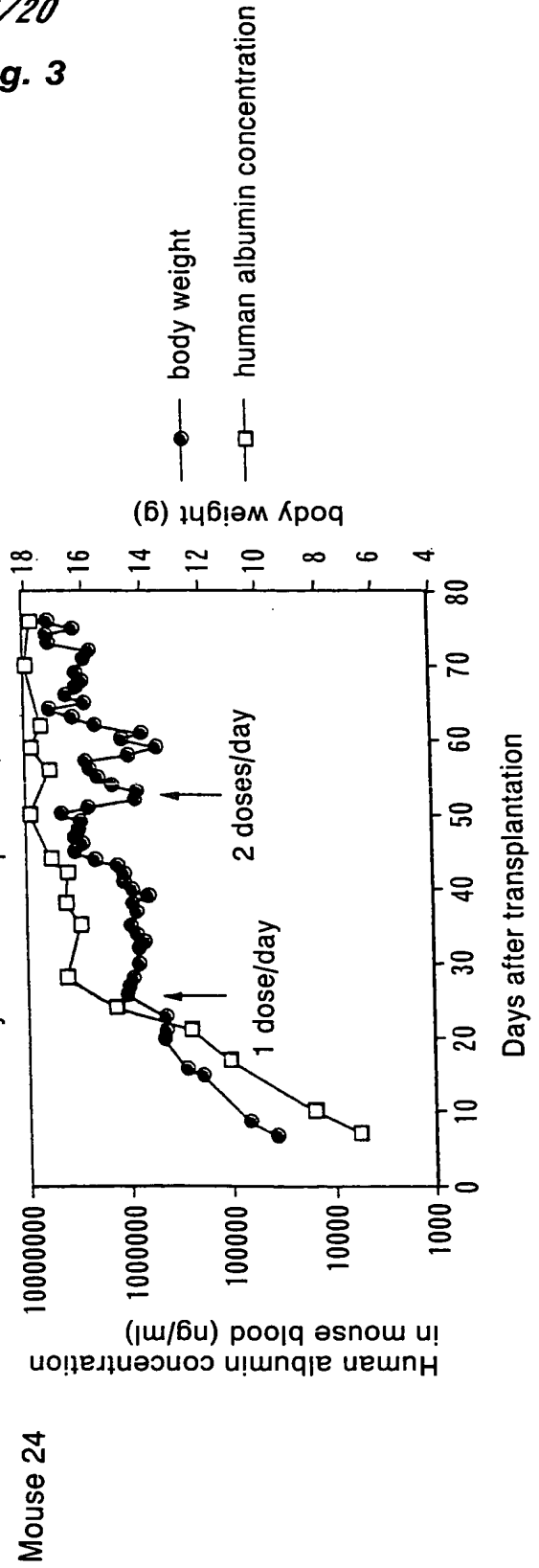
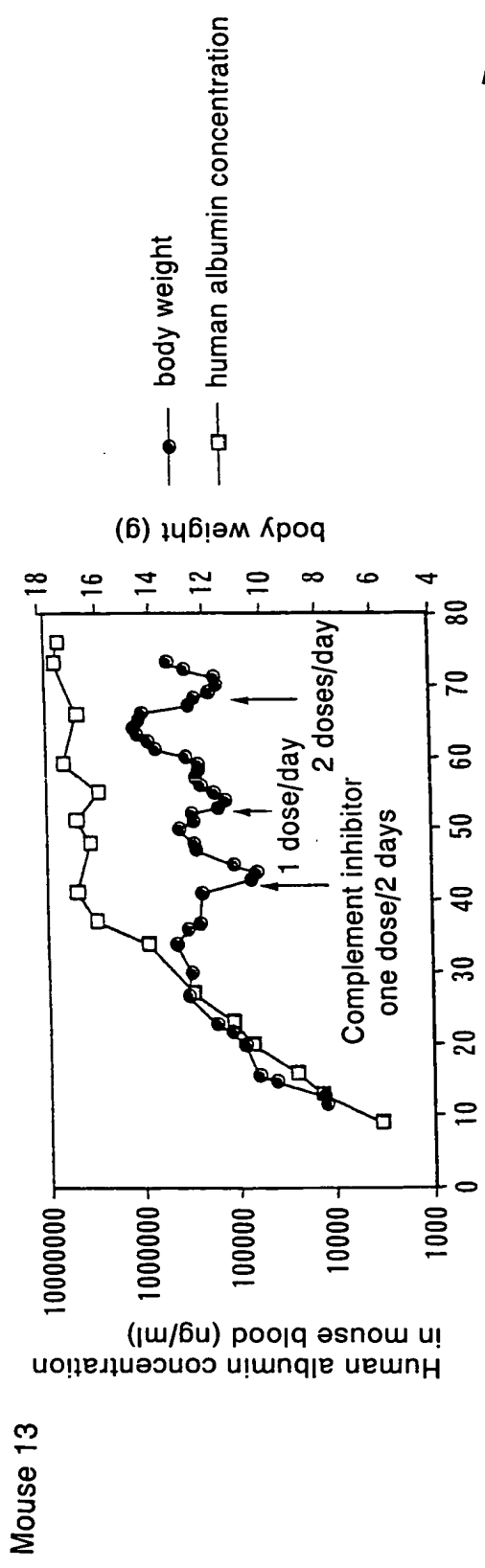


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Fig. 2

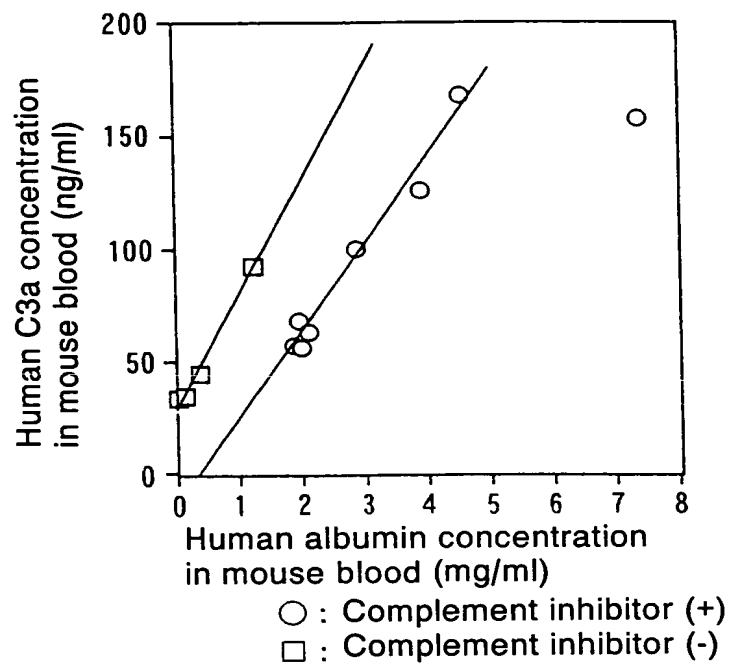


3/20
Fig. 3



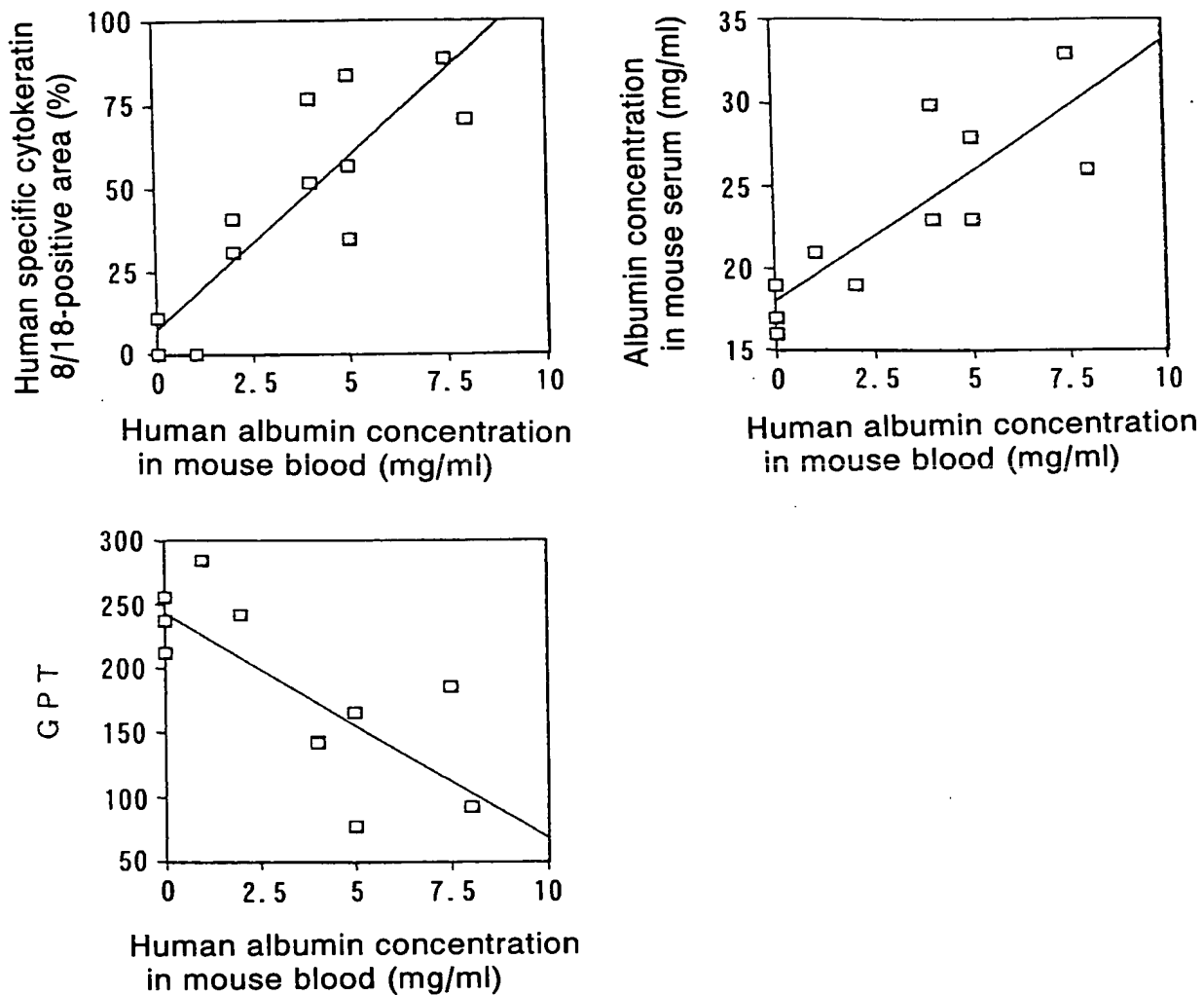
4/20

Fig. 4



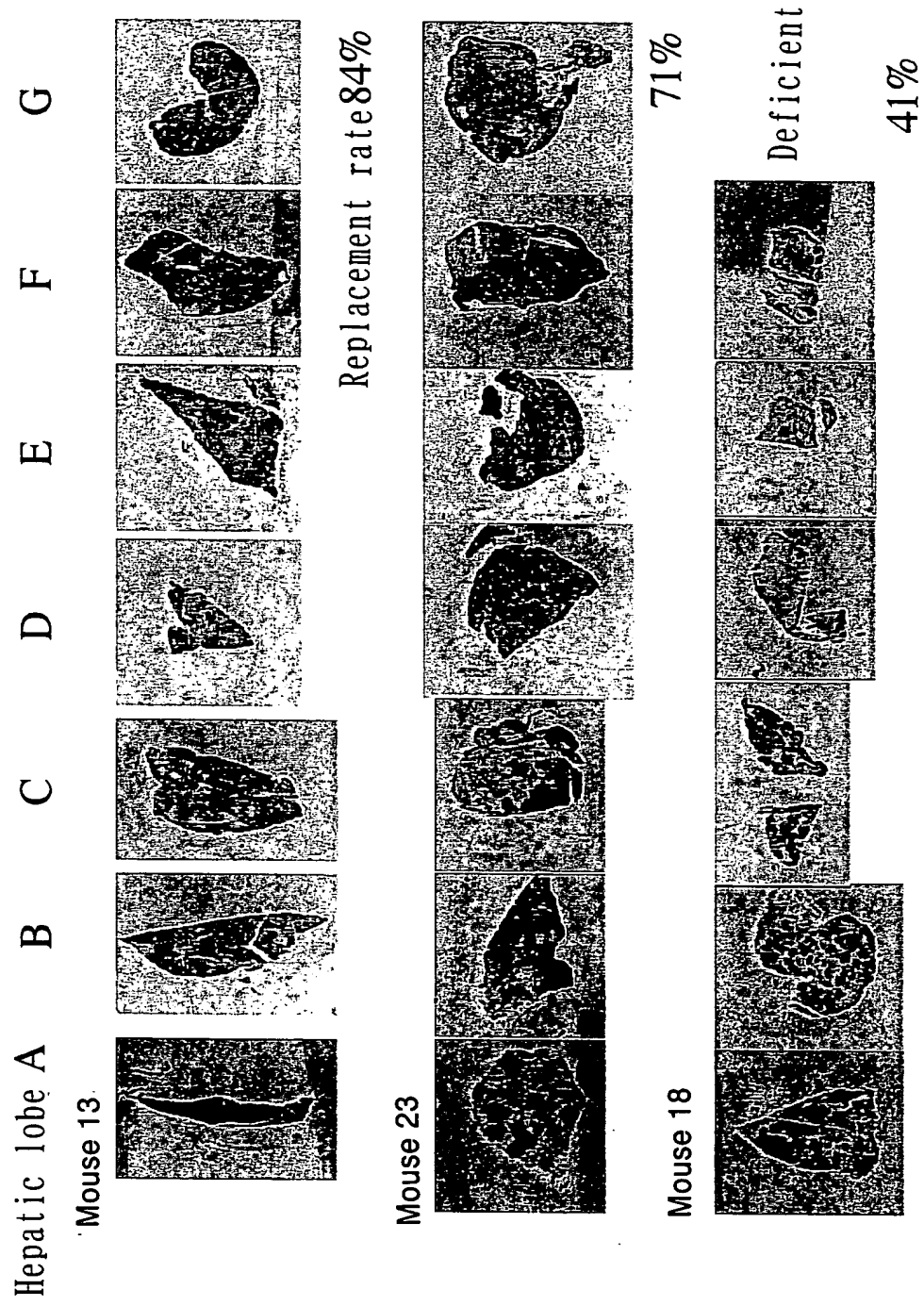
5/20

Fig. 5

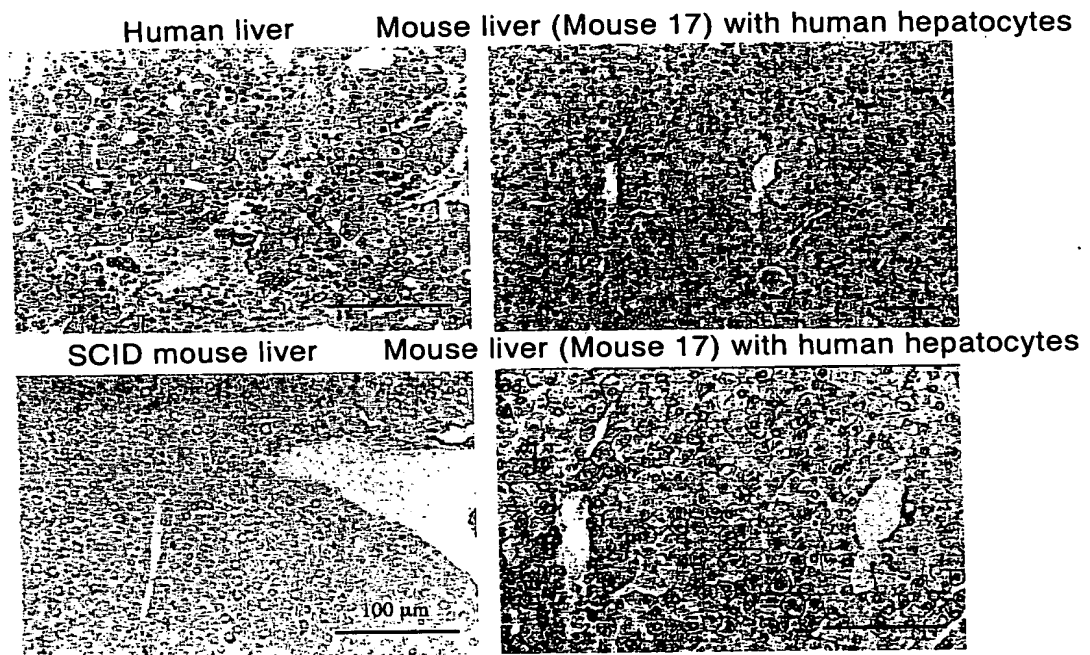


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Fig. 6



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Fig. 7

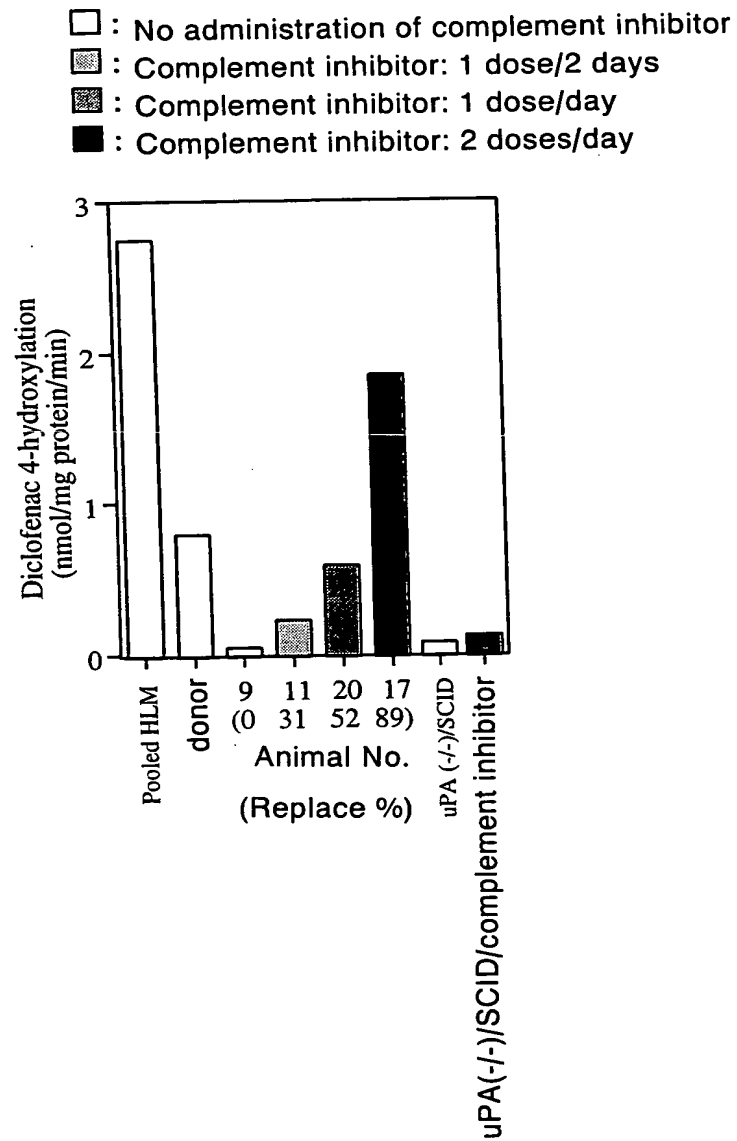
8/20

Fig. 8

Human liver microsome 89 0 52 11 71 (replacement rate of h-hepatocytes %)
100 50 25 12.5 (%) 17 19 21 22 23 (mouse No.)

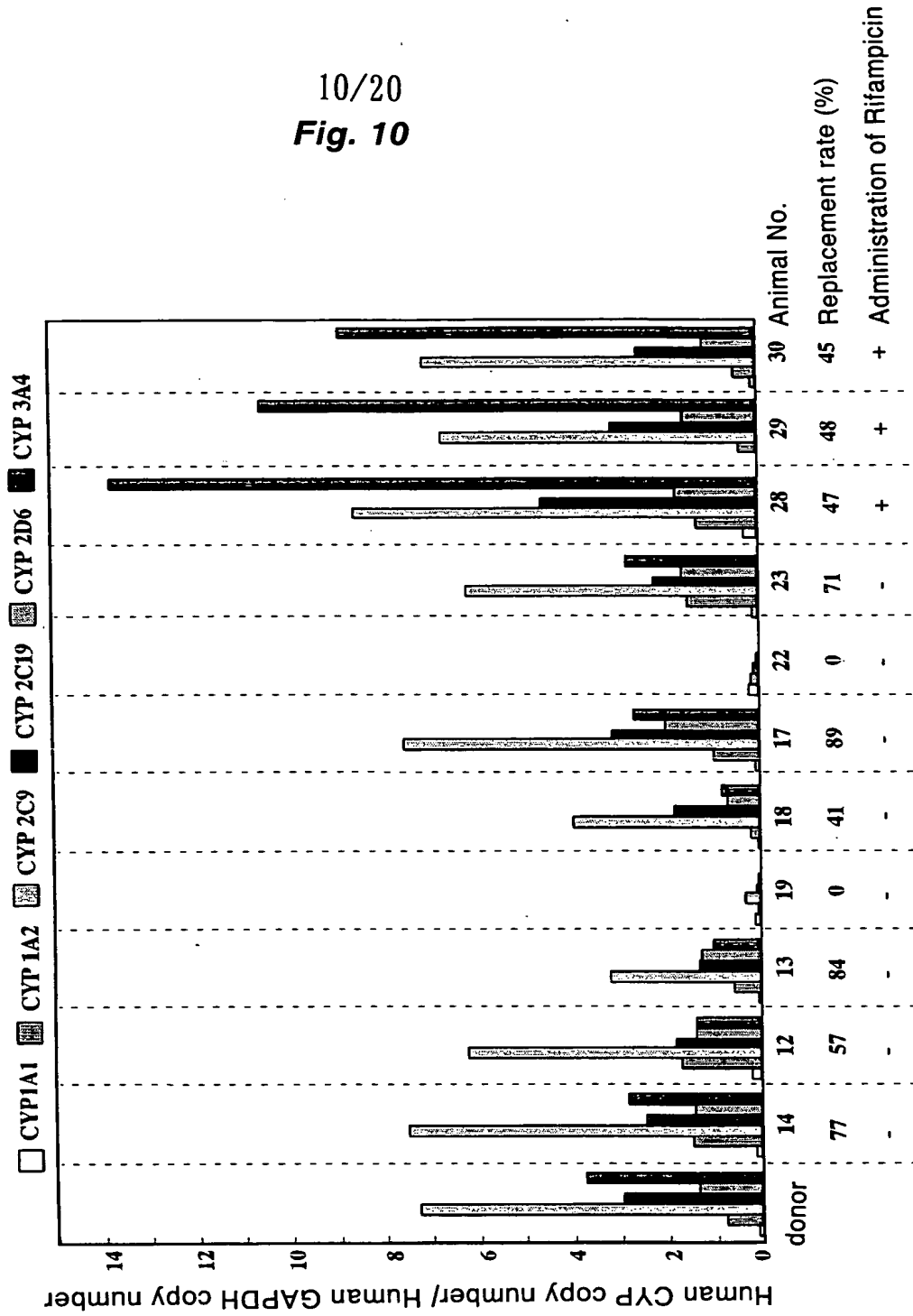


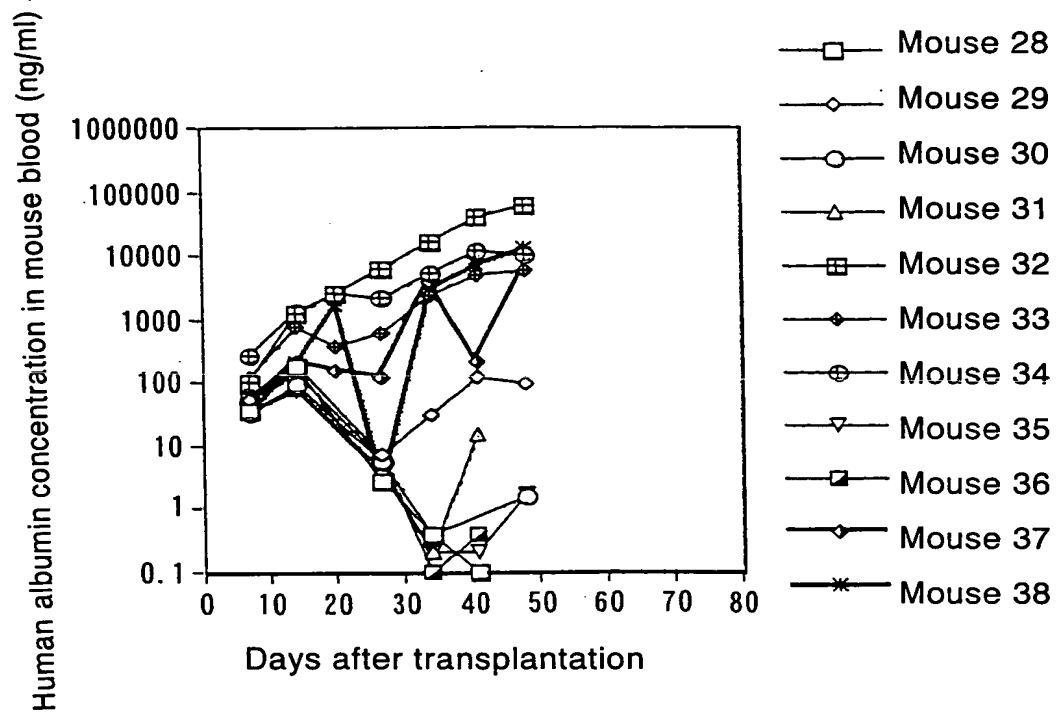
9/20

Fig. 9

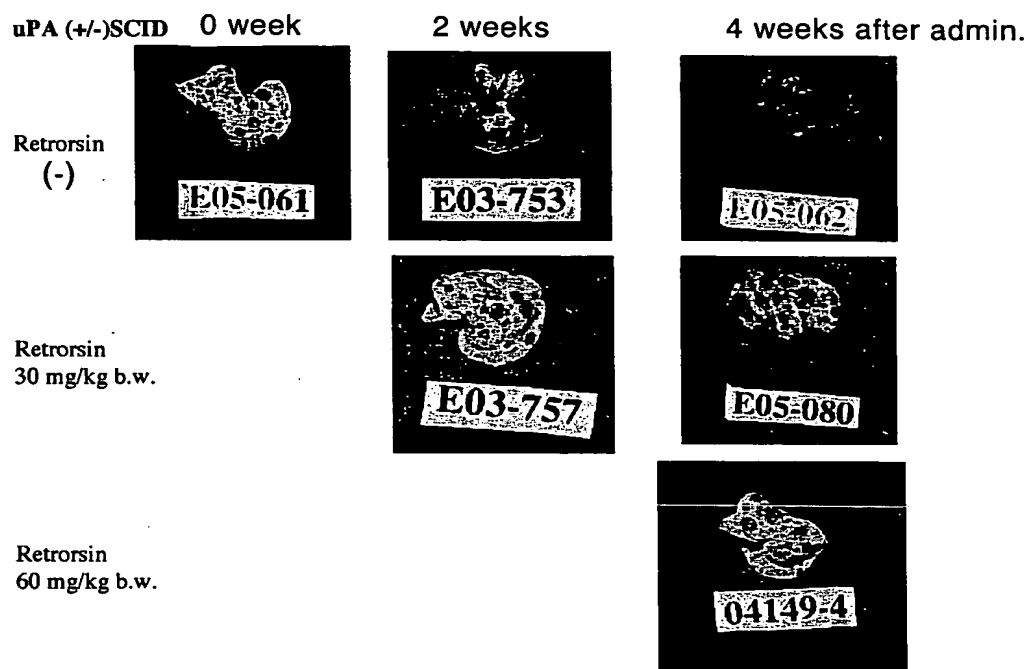
10/509032

10/20
Fig. 10

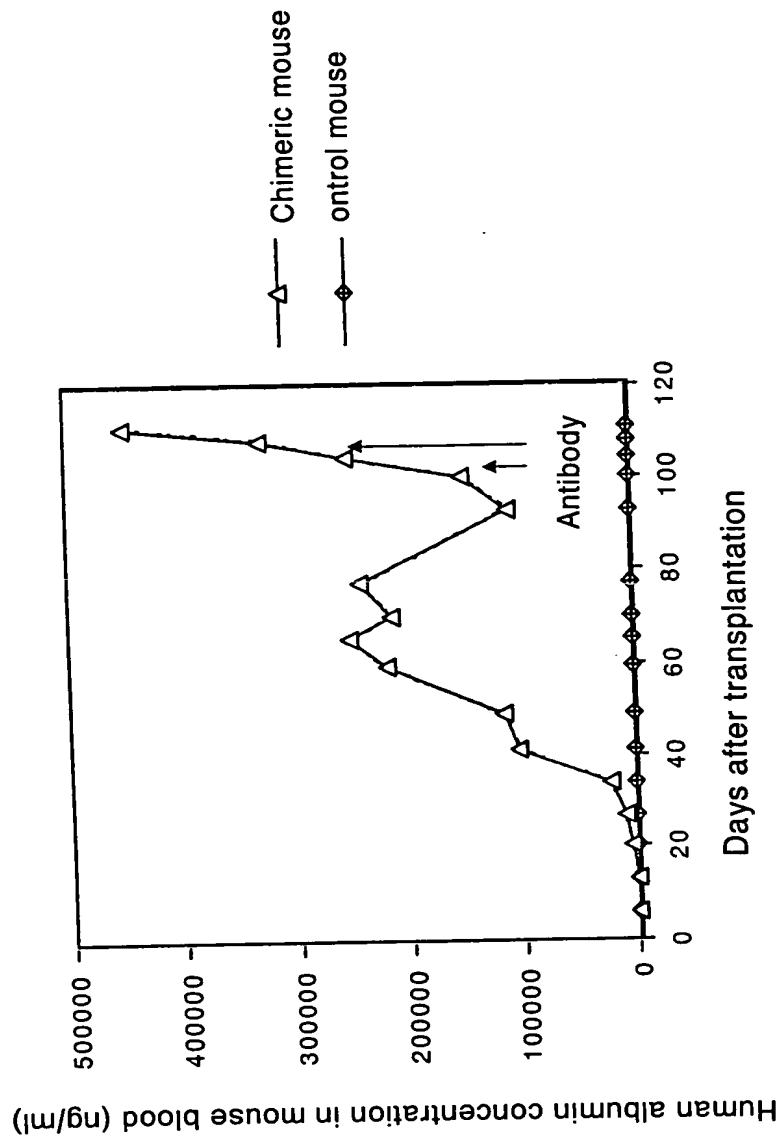




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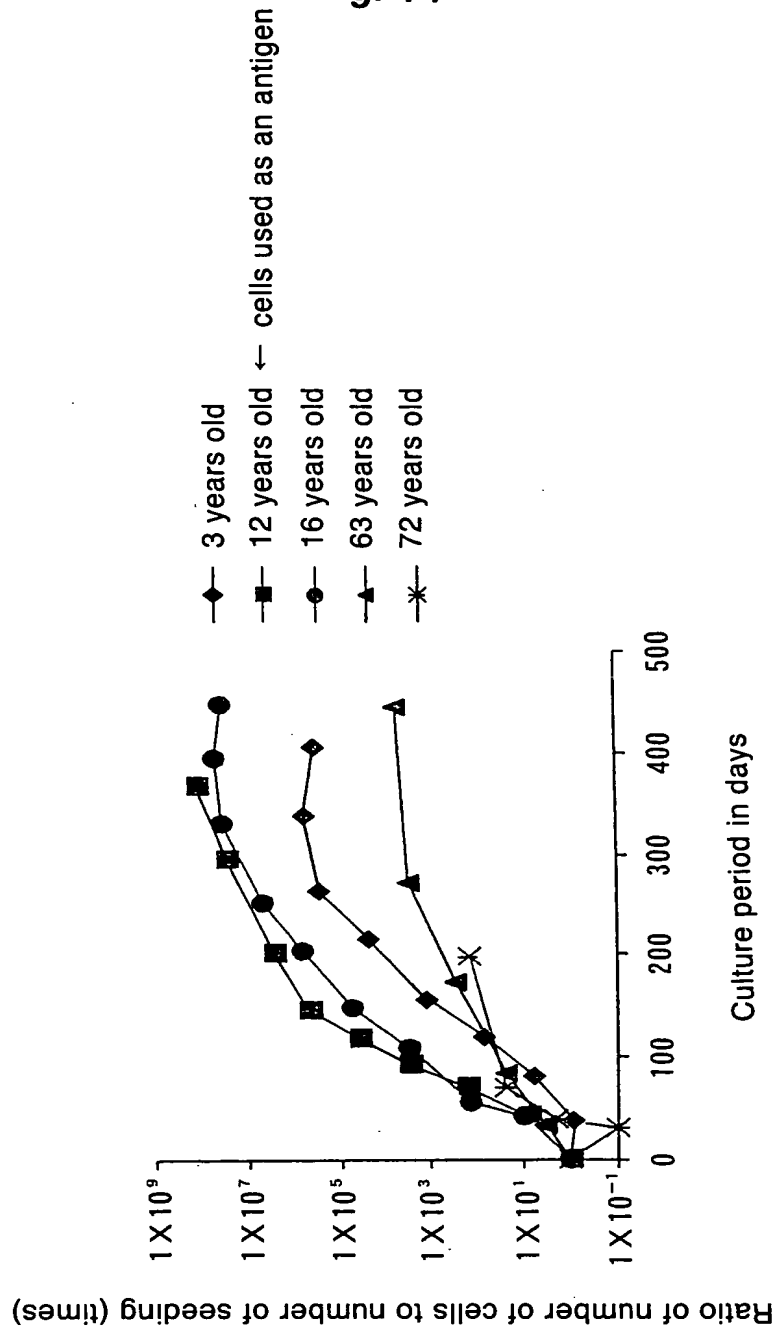
Fig. 12

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Fig. 13

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Fig. 14



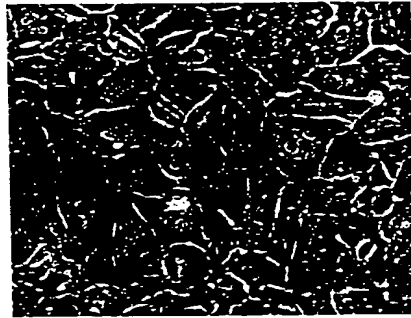
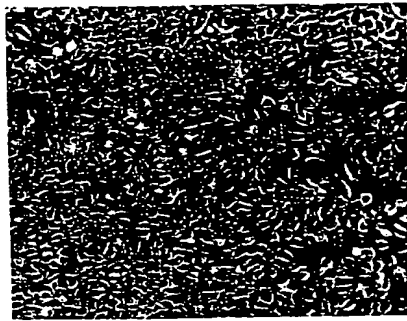
15/20

Fig. 15

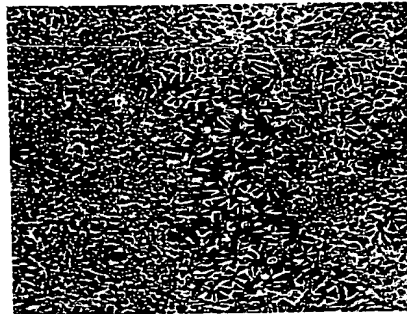
Human hepatocytes (12 years old) used as an antigen
to prepare a monoclonal antibody

Primary culture

At 30 days



At 43 days



Subculture (3 passages) → immunizing mice

After 33 days



Bar, 100 μ m

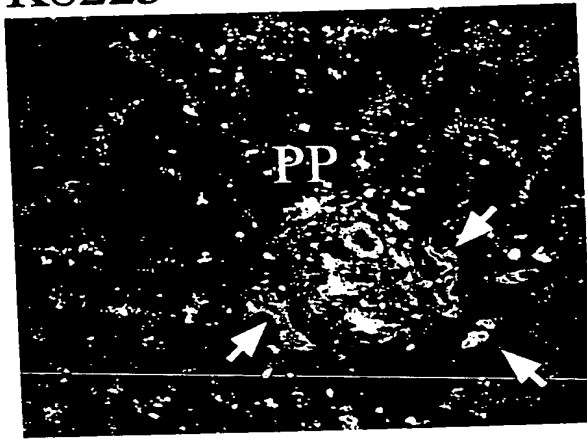
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Fig. 16

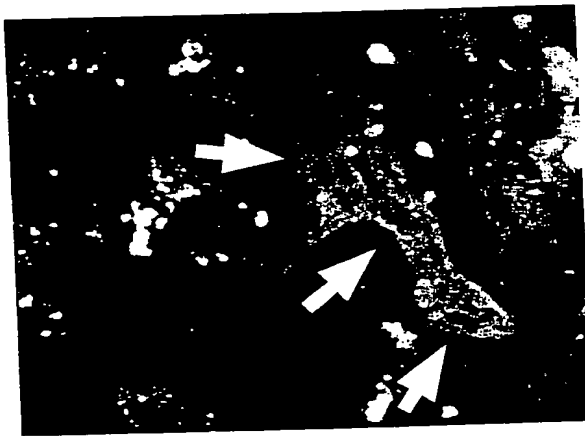
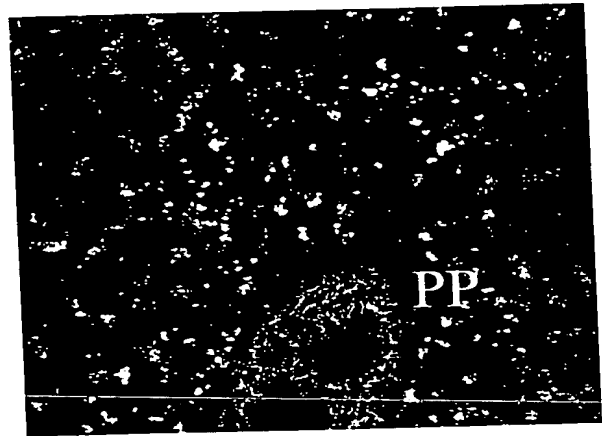
Human tissue (62 years old)

Hybridoma culture supernatant (K8223)

K8223



No primary antibody

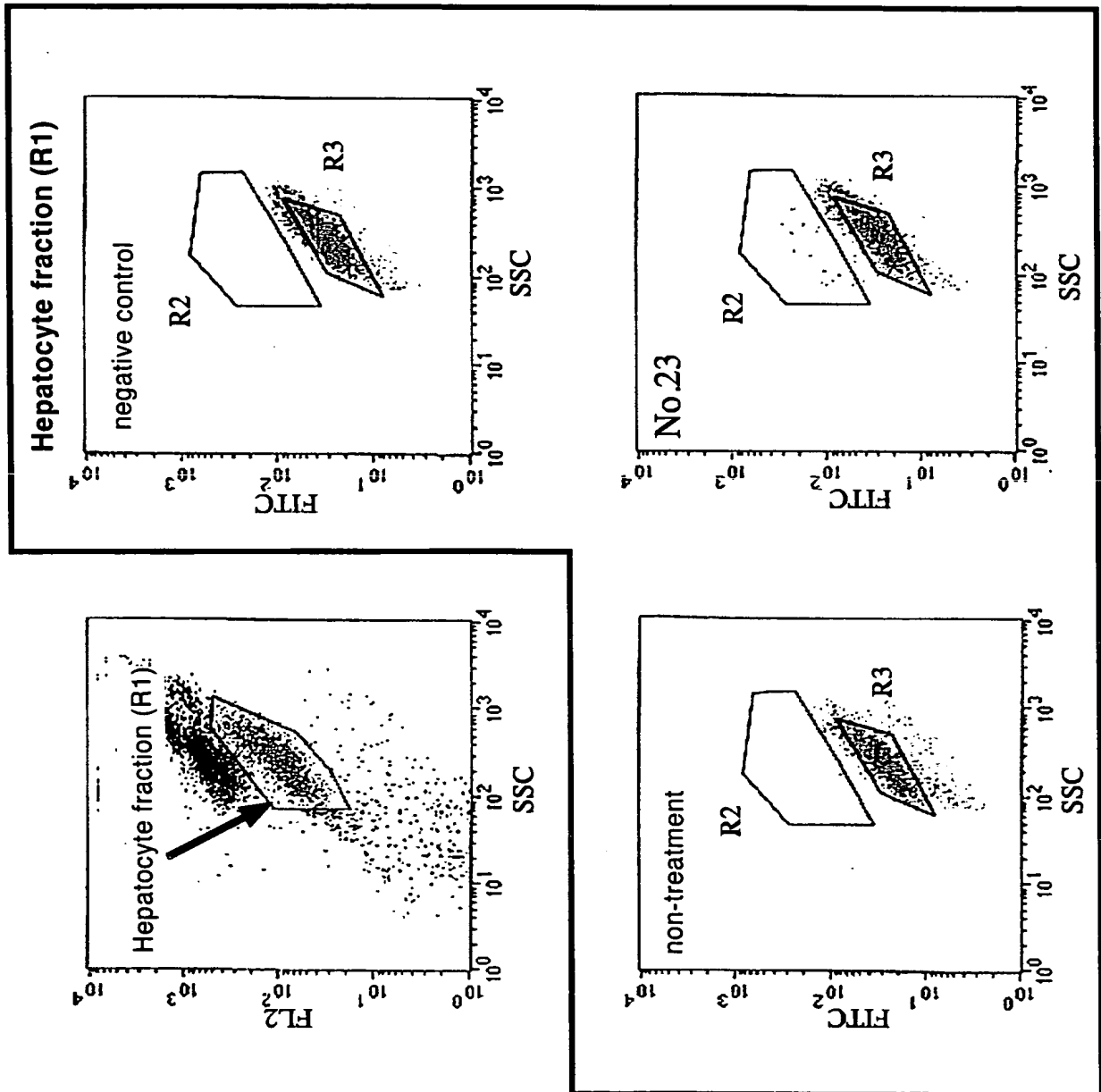


PP: Portal region

Bar, 50 μ m

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Fig. 17

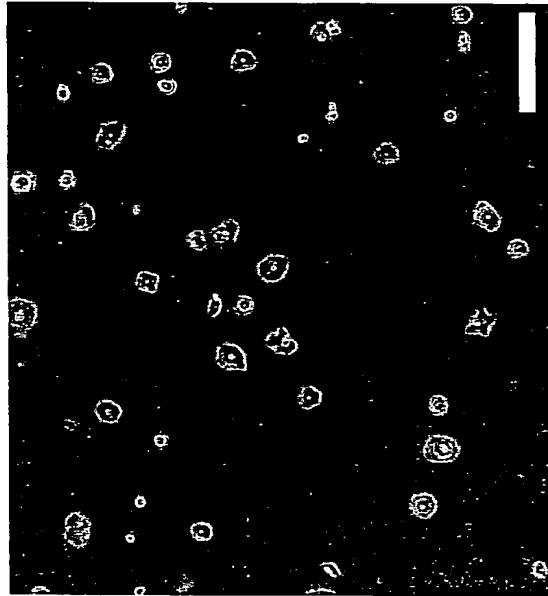


18/20

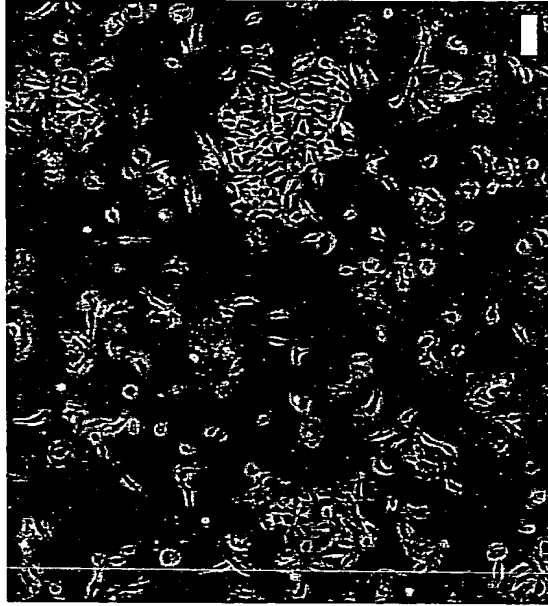
Fig. 18

Hybridoma culture supernatant: No.23
Isolated human hepatocytes (49 yeas old)

At day 1 in culture



At day 8 in culture



Bar, 100 μ m

Before sorting

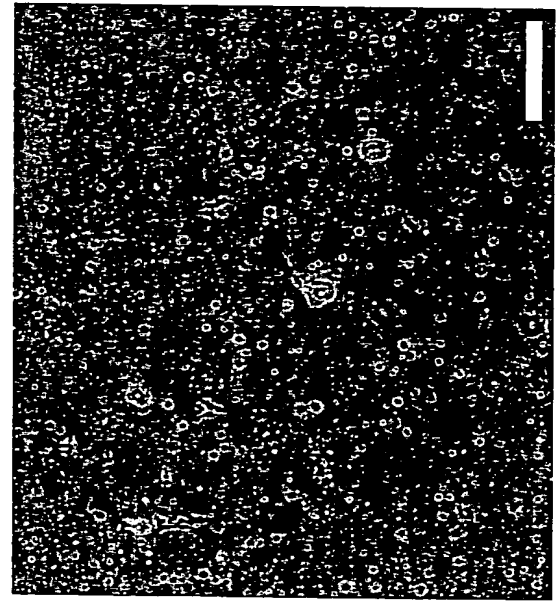
10/509032

18/1/20

Fig. 18/1

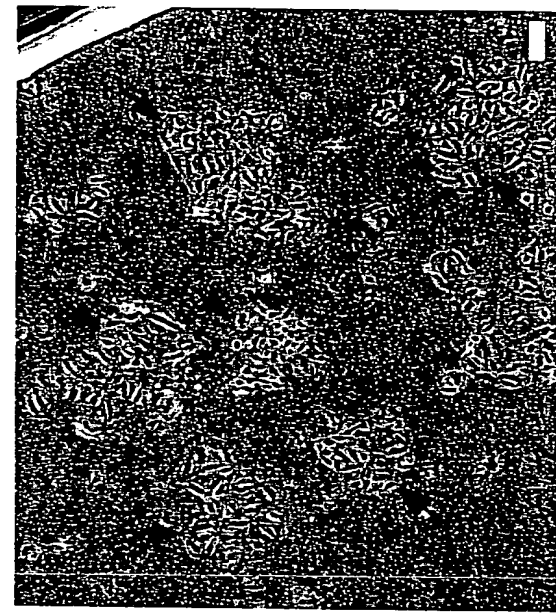
Hybridoma culture supernatant: No.23
Isolated human hepatocytes (49 years old)

At day 1 in culture



R2 fraction

At day 8 in culture



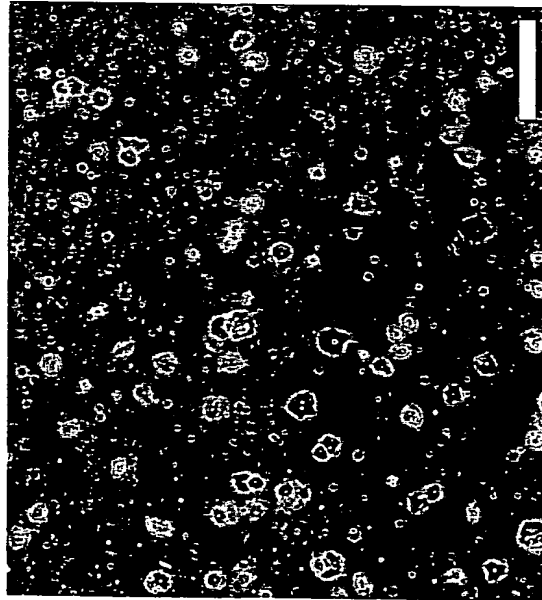
Bar, 100 μ m

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Fig. 18/2

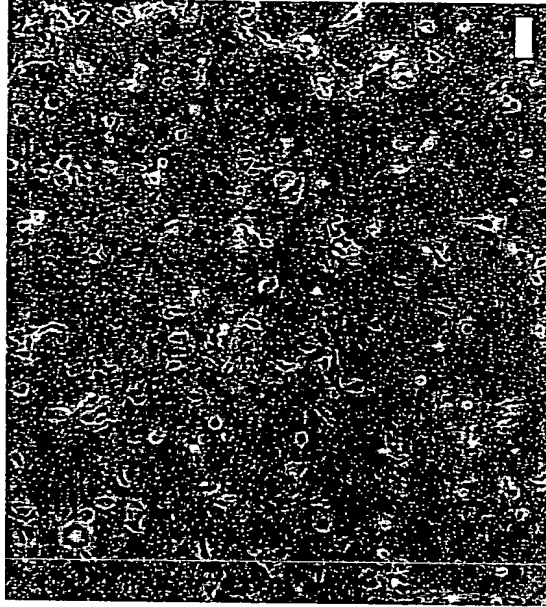
Hybridoma culture supernatant: No.23
Isolated human hepatocytes (49 years old)

At day 1 in culture



R3 fraction

At day 8 in culture

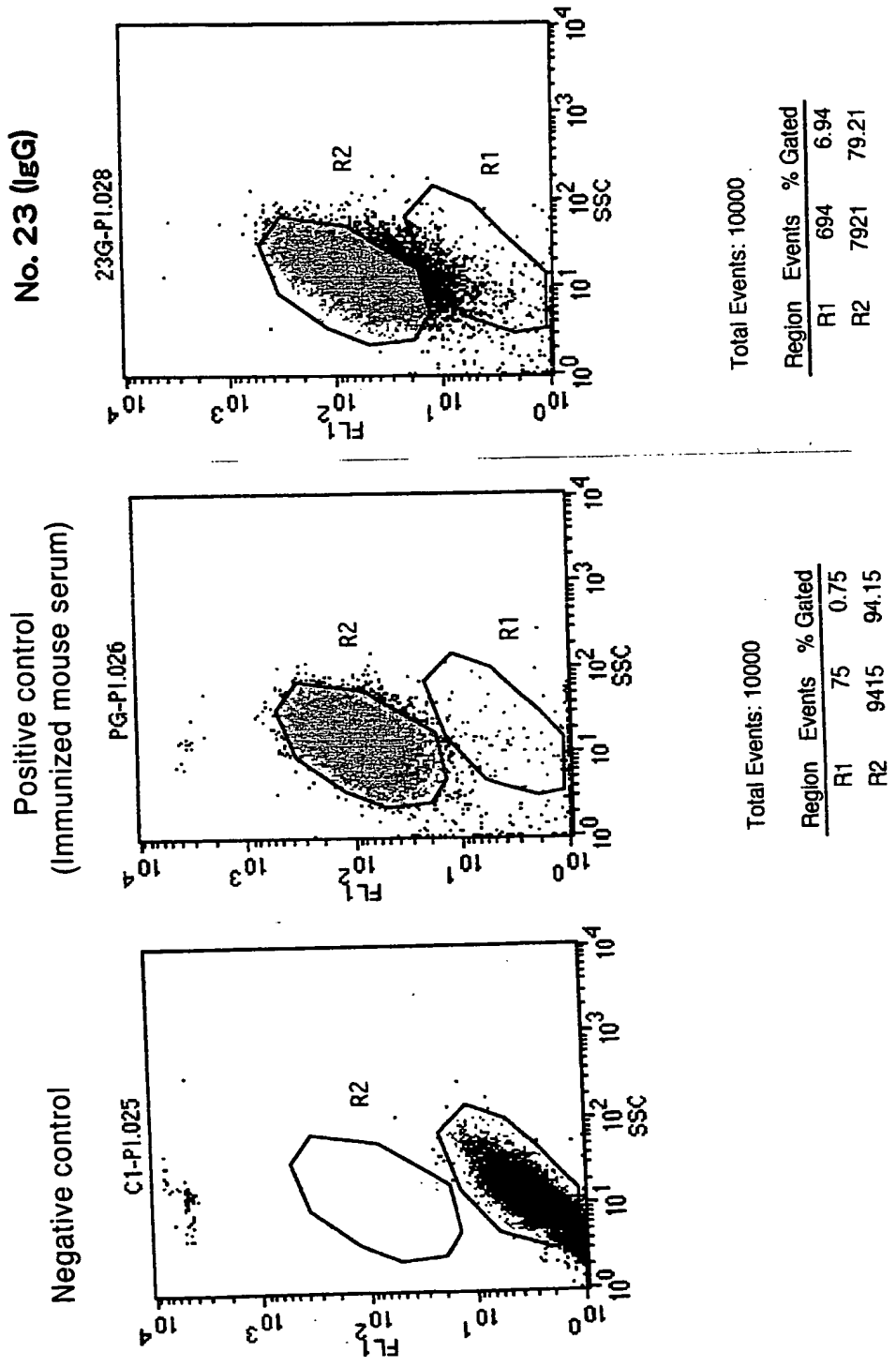


Bar, 100 μ m

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Fig. 19

Cultured human hepatocytes
(12 years old, male, 5 passages of subculture)



20/20

Fig. 20

